

GENES^WIS

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GENES^WIS



- single country CGE
- small open economy
- dynamic

GENE^WMoD



- global trade model
- multiregional
- GTAP & IEA data
- calibrated fossil fuel supply
- dynamic recursive or static

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Econability
Sustainable Economics in Research and Practice

Climate change
(mitigation)

- ❖ Linking the Swiss ETS with the EU ETS (for FOEN)
- ❖ Social cushioning for CO₂ levies (for SFOE)

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Climate change
(adaptation)

- ❖ Adapting to climate extremes under uncertainty, especially to flood events (for SNF Sinergia)

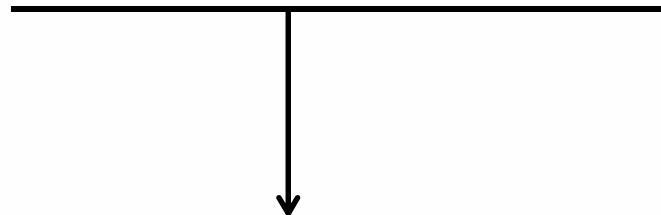
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Climate change
(mitigation)

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Energy

- ❖ Electricity market modeling with bottom-up top-down coupling (with PSI for SFOE)



Climate change
(adaptation)

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- ❖ single country CGE with Armington trade
- ❖ fully dynamic Cass-Koopmans-Ramsey growth model
- ❖ detailed tax and transfer system, equal-yield mechanism

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Adaptation

- ❖ stochastic flood damage
- ❖ imperfect foresight
- ❖ adaptation measures
- ❖ bounded rationality

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Energy

- ❖ largely based on Energy IOT 2008, possible update to 2011
- ❖ detailed representation of energy demand, sectors and carriers
- ❖ user-differentiated energy prices to model physical energy flows
- ❖ baseline which replicates the „weiter wie bisher“ scenario

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- ❖ coupled to PSI's CROSSTEM model

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Multiple households

- ❖ income categories
- ❖ working vs. retired
- ❖ with vs. without children
- ❖ urban vs. rural

GENES^WIS: CES nesting in production

